

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	Released To Production per E.O. 5891	6-27-79	DR
B	Incorporated EO. 3251	8-16-79	DJ

C	Incorporated EO 3471	12-28-79	PS
D	Incorporated EO 3693	5-30-80	PS

PRODUCTION RELEASE

TABLE OF CONTENTS

DO NOT SCALE DRAWING		CONTRACT NO.	
SCREW THREADS PER HANDBOOK H-28		DRAWN N. Glass 0-979	
COUNTERBORE AND SPOTFACE FILLET RADII TO BE 0.10 MAXIMUM		CHECK N. Glass 0-9-99	
REMOVE ALL BURRS AND BREAK SHARP EDGES EQUIVALENT TO 0.010		DESIGN	
ROUGHNESS OF MACHINED SURFACES 125 PER USAS B461		PROJ. ENGR. D. Nakaya 1/4	
STANDARD HOLE TOLERANCE PER AND 10387			
TOLERANCES ON XX = ± 0.03 XXX = ± 0.010 ANGLES = 2° 0' 30"			
INTERPRET DIMENSIONS AND TOLERANCES PER USAS Y14.5			
DIMENSIONS ARE IN INCHES AND APPLY AFTER HEAT TREAT AND FINISH			
UNLESS OTHERWISE SPECIFIED		OTHER	
APPROVALS			

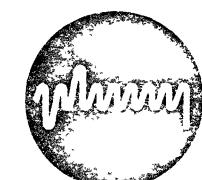
 **Plessey Peripheral Systems**

DRAWING TITLE: MAINTENANCE DRAWING PACKAGE
PM-DC11A Disc Controller

SIZE	CODE IDENT NO.	DWG NO.
B	52648	MD 703225
SCALE:		SHEET 1 OF 1 (13)

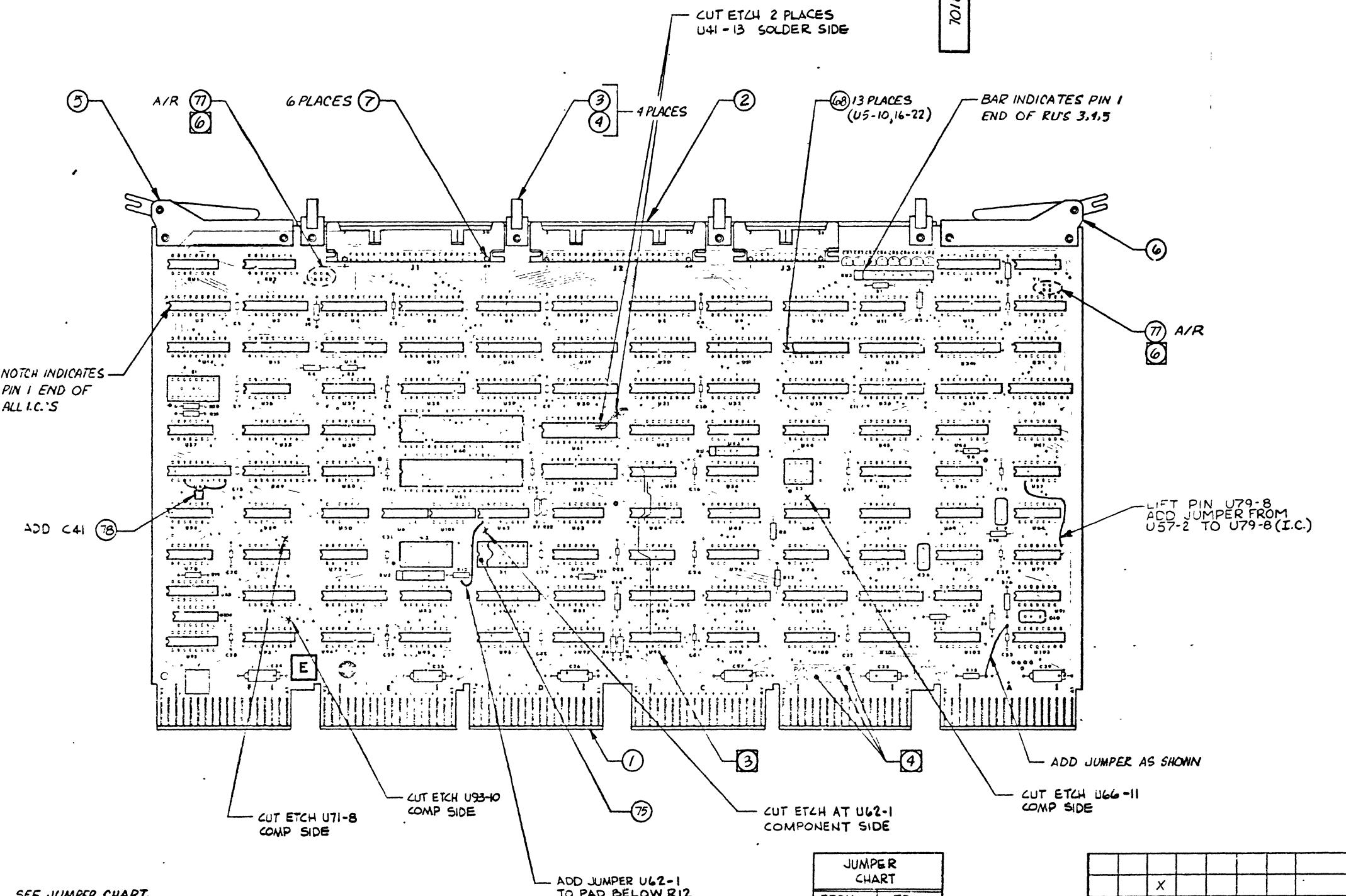
Maintenance Drawing Package

**Products
Covered by this
Drawing Package**



Plessey Peripheral Systems

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- ⑥ SEE JUMPER CHART.
- ⑤ COMPONENT LEAD TRIM AND SOLDER BUILD-UP TO BE AS NOTED.
- ④ MARK ASSEMBLY VERSION NUMBER, LATEST REVISION LETTER AND SERIAL NUMBER WITH .12 HIGH CHARACTERS USING WHITE INK PER MIL-M-13231, GROUP III. LOCATION APPROXIMATELY AS SHOWN.
- ③ COMPONENT DESIGNATIONS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON PART.
- 2. FOR SCHEMATIC DIAGRAM SEE SD701840.
- 1. ASSEMBLE AND INSPECT PER WORKMANSHIP STANDARDS MANUAL.

NOTES: UNLESS OTHERWISE SPECIFIED

JUMPER CHART	
FROM	TO
U56 - 12	U52 - 13
U56 - 13	U79 - 4
U79 - 5	U45 - 14
U79 - 5	U52 - 17
U79 - 6	U56 - 8
U56 - 8	U66 - 11
U105 - 1	U60 - 1
U105 - 2	U93 - 10
U105 - 3	U71 - 1

PARTS LIST		Plessey Peripheral Systems			CODE IDENT NO 52648	PARTS LIST NO PL701840-100	SH 3	G					
	NOTE	CTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		SPECIFICATION	CODE IDENT NO.	ZONE	F IN D	S V M	C/I USAGE		
									C/I CODE	INV ON HAND	P PAR	UNIT COST	
		1	701839-001	PRINTED WIRING BOARD				1					
		1	701011-001	STIFFENER, PWB, HEX				2					
	4	^{SK} 701568-001	SPACER, MOLDED					3					
	4	SE-4/0- NICKEL- PLATE	EYELET		UNITED SHOE (USM)			4					
G	1	111-1001-1	EXTRACTOR, LEFT		CALMARK			5					
G	1	111-1001-2	EXTRACTOR, RIGHT		CALMARK			6					
	6	901-040	SPACER, UHHV, NYLON .0281D X .085 OD X .040 THK		BIYAR INC SANTA ANA			7					
	1	100137 -101	I.C./PROM					8					
	1	100137 -102	I.C./PROM					9					
	1	100137 -103	I.C./PROM					10					
	1	100137 -104	I.C./PROM					11					
	1	100137 -105	I.C./PROM					12					
	1	100137 -106	I.C./PROM					13					

PARTS LIST				Plessey Microsystems		CODE IDENT NO.	PARTS LIST NO.	C/I USAGE						
	NOTE	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		SPECIFICATION	CODE IDENT NO.	ZONE	F N O D	S Y H	C/I CODE	INV OR MANO	PAR	UNIT COST
		3	AM2911	I.C./	4-BIT MICROPROCESSOR SEQUENCER	AMD		14						
E		4	SN74S240	I.C./	OCTAL BUFFER/LINE DRIVER/LINE RECEIVER	T.I.		15						
								16						
		2	SN74LS00	I.C./	QUAD 2-INPUT POS-NAND GATE			17						
		3	SN74S175	I.C./	HEX/QUAD D-TYPE F/F W/CLEAR			18						
		8	SN74LS273	I.C./	OCTAL D-TYPE F/F W/CLEAR	T.I.		19						
C		1	100141 -100	I.C./	256-BIT PROM 3-STATE OUTPUT			20						
		1	SN74LS02	I.C./	QUAD 2-INPUT POS-NOR GATE	T.I.		21						
		5	SN74LS01	I.C./	HEX INVERTER	T.I.		22						
		1	SN74S158	I.C./	QUAD 2-LINE TO 1-LINE DATA SELECTOR/MUX/MUX/DEMUX	T.I.		23						
		9	136004 -001	I.C./	OCTAL D-TYPE EDGE/TRIG F/F			24						
		1	SN74S139	I.C./	DECODER/DEMULTIPLEXER	T.I.		25						
		5	SN74LS74	I.C./	DUAL D-TYPE POS-EDGE-TRIG F/F W/PRESET/CLEAR	T.I.		26						

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Form 000087

PARTS LIST		Plessey Microsystems		CODE IDENT NO	PL 701840-100	SH 5	A	PARTS LIST		Plessey Microsystems		CODE IDENT NO	PL 701840-100	SH 7	B														
NOTE	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		SPECIFICATION	CODE IDENT NO.	ZONE	F IN O D	S Y M	C/I CODE	INT ON HAND	P A R	UNIT COST	NOTE	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		SPECIFICATION	CODE IDENT NO.	ZONE	F IN O D	S Y M	C/I CODE	INT ON HAND	P A R	UNIT COST		
	2	AM29701	I.C./NON-INVERTING 64-BIT RANDOM ACCESS MEMORY		AMD		27							P	2	3496-1003	CONNECTOR/50-PIN GOLD-PLATED TAIL/HEADERS, RIGHT ANGLE		3M		53								
	2	AM2901A	I.C./7-BIT BI-POLAR MICRO-PROCESSOR SLICE		AMD		28							B	1	3493-1003	CONNECTOR/26-PIN GOLD-PLATED TAIL/HEADERS, RIGHT ANGLE		3M		51								
	2	9403PC	I.C./FIFO BUFFER MEMORY	FAIRCHILD		29									1	CK05BX 821K	CAPACITOR/820pF, ±10%, 200V	MIL-C-11015		55									
	4	SN74S251	I.C./DATA SELECTOR/MULTIPLEXER W/ 3-STATE OUTPUT	T.I.		30									9	RC076F472J	RESISTOR/4.7KΩ, ±5%, 1/4W	MIL-R-11		56									
	1	SN74S26	I.C./QUAD 2-INPUT EXCLUSIVE-OR GATE			31									2	RC076F107J	RESISTOR/1KΩ, ±5%, 1/4W	MIL-R-11		57									
	3	SN74S138	I.C./DECODER/DEMULTIPLEXER			32									2	RC076F471J	RESISTOR/470Ω, ±5%, 1/4W	MIL-R-11		58									
	1	SN74S157	I.C./QUAD 2-LINE TO 1-LINE DATA SELECTOR/MULTIPLEXER			33									2	RC076F391J	RESISTOR/320Ω, ±5%, 1/4W	MIL-R-11		59									
	4	SN74S08	I.C./QUAD 2-INPUT POS-AND GATE			34									4	RC076F181J	RESISTOR/180Ω, ±5%, 1/4W	MIL-R-11		60									
	1	SN74S10	I.C./TRIPLE 3-INPUT POS-NAND GATE	T.I.		35									1	RC076F103J	RESISTOR/10KΩ, ±5%, 1/4W	MIL-R-11		61									
	2	136000-038	I.C./QUAD 2-INPUT POS-NAND BUFFERS W/OC			36									1	RC076F203J	RESISTOR/20KΩ, ±5%, 1/4W	MIL-R-11		62									
	1	SN74S153	I.C./DUAL 9-LINE TO 1-LINE DATA SELECTOR/MULTIPLEXER	T.I.		37									2	RC076F151J	RESISTOR/150Ω, ±5%, 1/4W	MIL-R-11		63									
	1	SN74S74	I.C./DUAL D-TYPE POS-EDGE-TRIG/F/F W/PRESET/CLEAR	T.I.		38									1	RC076F823J	RESISTOR/82KΩ, ±5%, 1/4W	MIL-R-11		64									
	1	136021-381	I.C./QUAD NOR UNIFIED BUS RECEIVER			39									2	893-5-330/330	RESISTOR MODULE/330/330Ω	BECKMAN		65									

PARTS LIST		Plessey Microsystems		CODE IDENT NO	PL 701340-100	SH 6	A	PARTS LIST		Plessey Microsystems		CODE IDENT NO	PL 701340-100	SH 8	F														
NOTE	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		SPECIFICATION	CODE IDENT NO.	ZONE	F IN O D	S Y M	C/I CODE	INT ON HAND	P A R	UNIT COST	NOTE	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		SPECIFICATION	CODE IDENT NO.	ZONE	F IN O D	S Y M	C/I CODE	INT ON HAND	P A R	UNIT COST		
	1	EN74S10	I.C./TRIPLE 3-INPUT POS-NAND GATE	T.I.		40									1	100013-007	RESISTOR MODULE/220Ω			66									
	1	EN74S103	I.C./DUAL J-K POS-EDGE-TRIG/F/F W/PRESET/CLEAR	T.I.		41									2	100013-021	RESISTOR MODULE/10KΩ			67									
	1	SN74S174	I.C./HEX/Q-JAD D-TYPE F/F W/CLEAR	T.I.		42								F	13	C932002	SOCKET/20 PIN DIP LOW PROFILE	T.I.		68									
	2	DM8136	I.C./6-BIT UNIFIED BIS/BS COMPARATOR	NATIONAL		43									1	3-435668-4	SWITCH, DIP, 4 POSITION	AMP		69									
	2	EN74S244	I.C./OCTAL BUFFER/LINE DRIVER/NONINVERTING 3-STATE OUTPUT	T.I.		44									2	2-435668-8	SWITCH, DIP, 8 POSITION	AMP		70									
	10	DSC691	I.C./QUAD UNIFIED BUS TRANSCEIVER	NATIONAL		45									1	SN74S32	I.C./QUAD 2-INPUT POS-OR GATES	T.I.		71									
	2	SN74S00	I.C./QUAD 2-INPUT POS-NAND GATE	T.I.		46									1	700066-196	PLUG, ADDRESS STRAPPING, 16 PIN			72									
	30	CGA103ZDZ	CAPACITOR/.01uF	UNITRODE		47									1	SN74123	I.C./DUAL RETRIG MOJO MULTI W/CLR	T.I.		73									
	2	CK05-BX331K	CAPACITOR/330pF, 10%, 200VDC	MIL-C-11015		48									1	MK2-40-2-11.52MHZ	OSCILLATOR, 11.52 MHZ	CJS KNIGHT		74									
	2	SN74S02	I.C./QUAD 2-INPUT POS-NAND GATE	T.I.		49									B	1	US-2-16-110-G-B	SOCKET/16 PIN LOW PROFILE	SCANBE		75								
	1	SN74S04	I.C./HEX. INVERTER	T.I.		50									EEF	SNG3 WCAP2	SOLDER	122-5-571		76									
	8	CM4-43B	DIODE, LIGHT EMITTING	CHICAGO MINIATURE		51									AIR	TYPE S-30AWG	WIRE/30AWG, SOLID BUS TYPE S	QO-W-343		77									
	6	150D975X 9320B2	CAPACITOR/1.7uF, ±10%, 20V	SPRAGUE		52								E	1	CK05BX 221K	CAPACITOR/220pF, ±10%, 200V	MIL-C-11015		78									

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Form 000087

Code Ident No. DWG No. PL 701840-100

Rev : B

Size : B

Scale : B

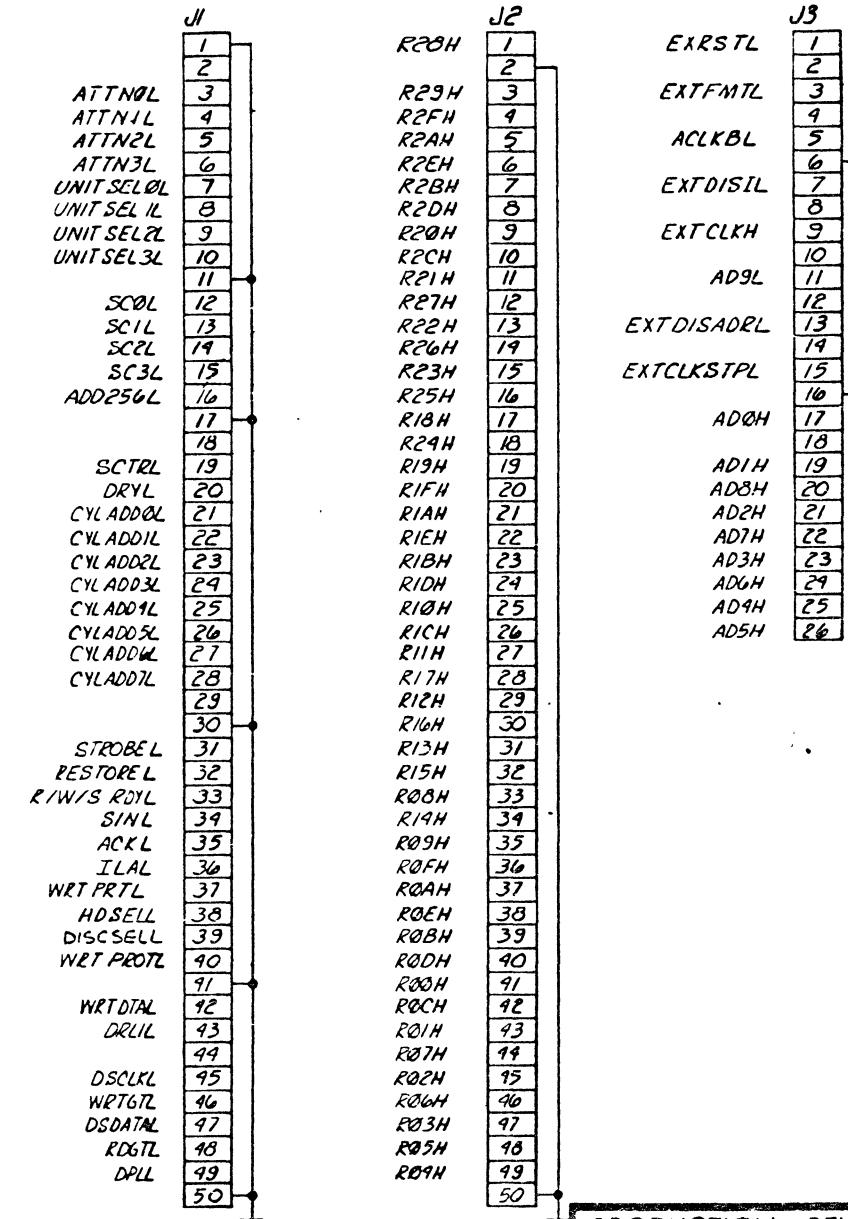
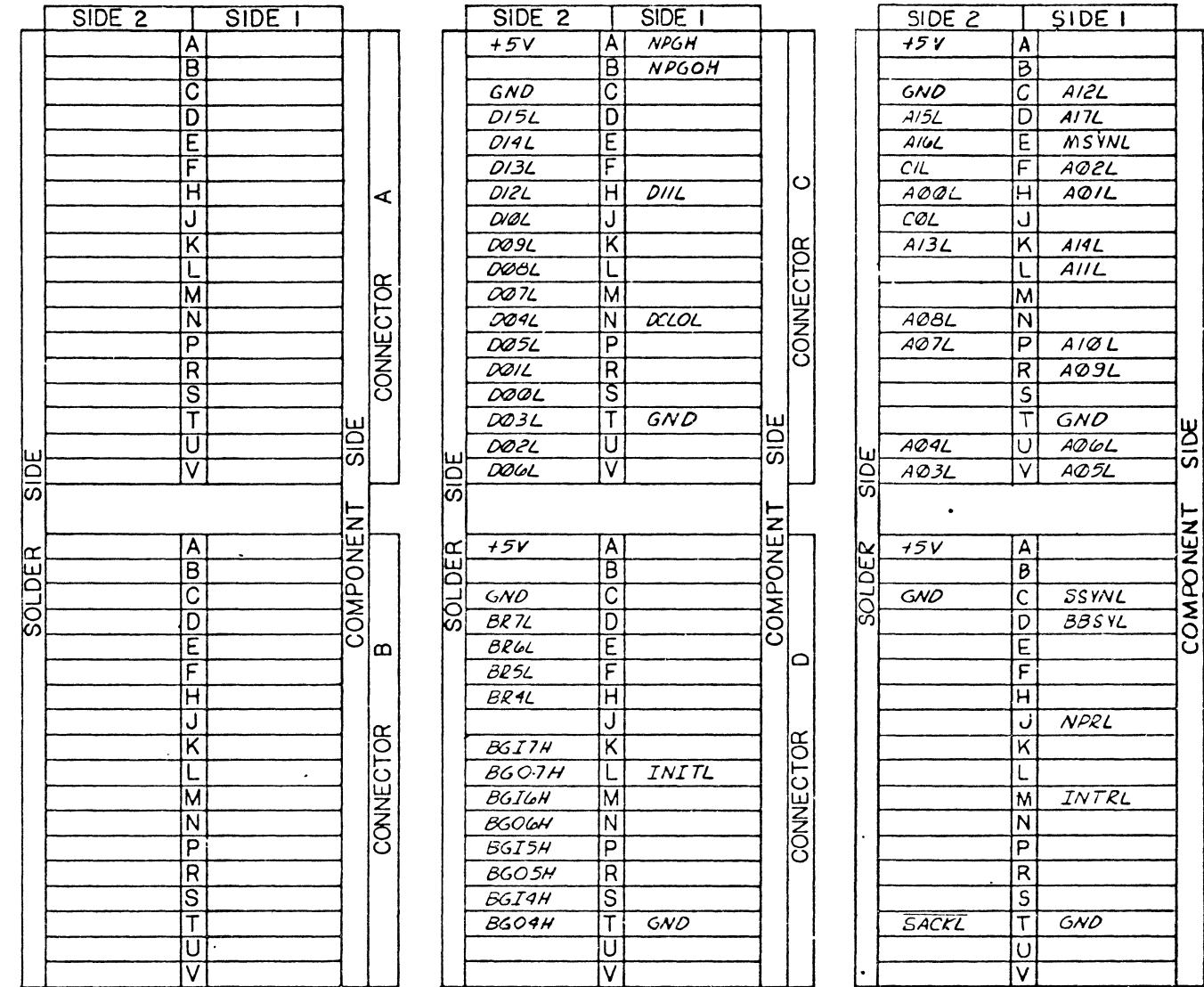
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REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPROVED
/	A	REL TO PROD PER EO 2853	3-22-74	P.R. K.R.
/	B	INCORP EO 3190 MC	7-20-75	BN/UR
/	C	INCORP EO 3366	11-15-71	K.R. K.R.
/	D	INCORP EO 3521	2-22-80	K.Y. G.S.

LAST REFERENCE DESIGNATION USED	
CAPACITOR	C41
CONNECTOR	J3
DIODE	CR8
INTEGRATED CIRCUIT	UI05
CRYSTAL	Y1
RESISTOR	R26
RESISTOR MODULE	RUS
STRAPPING PLUG	X1
SWITCH	SW3
REFERENCE DESIGNATION NOT USED	
INT. CKT	U42, 17-22
CAPACITOR	C12
RESISTOR	R9, 17

REF DESIG.	GATES USED PER TOTAL	PART NUMBER
U25	3/4	74S02
U26	5/6	74LS04
U44	2/4	74S86
U47	3/4	74S08
U58	5/6	74LS04
U73	3/4	136021-381
U71	3/6	74LS04
U102	3/6	74LS04
U104	3/4	74LS08
U105	1/4	74S02
U103	1/2	74123



PRODUCTION RELEASE

- ALL DIODES ARE FLY110 (FAIRCHILD)
- CAPACITOR VALUES ARE MICROFARADS.
- RESISTOR VALUES ARE IN OHMS, $\pm 5\%$, $1/4$ W.
- DESIGNATIONS SHOWN IN PARENTHESIS INDICATES WHERE SIGNAL ORIGINATES OR TERMINATES.

(2/B3)

ZONE DESIGNATION
SHEET NUMBER

2. SIGNALS SHOWN IN RECTANGLES ARE I/O CONNECTIONS.

BOARD SIDE
PIN DESIGNATION
CONNECTOR DESIGNATION

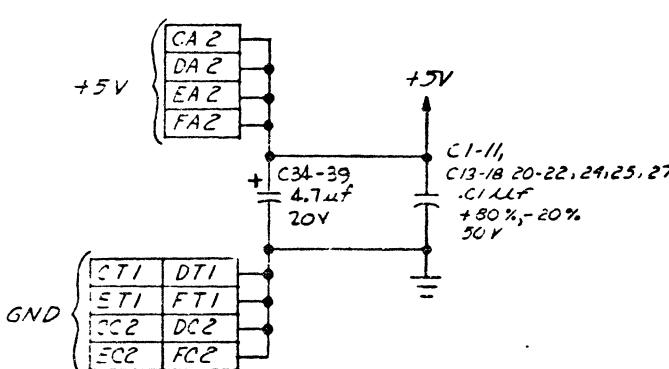
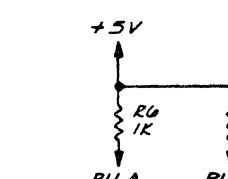
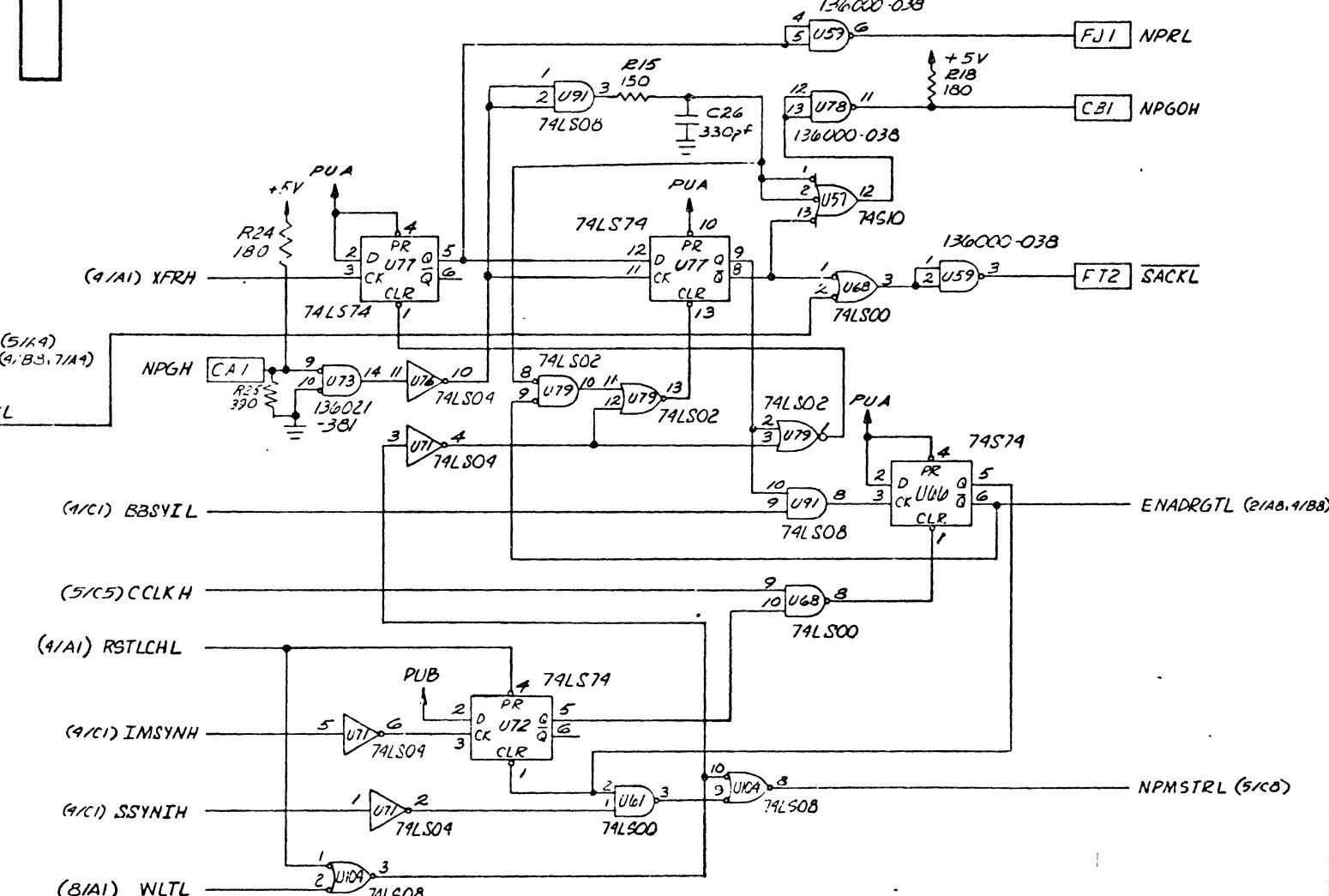
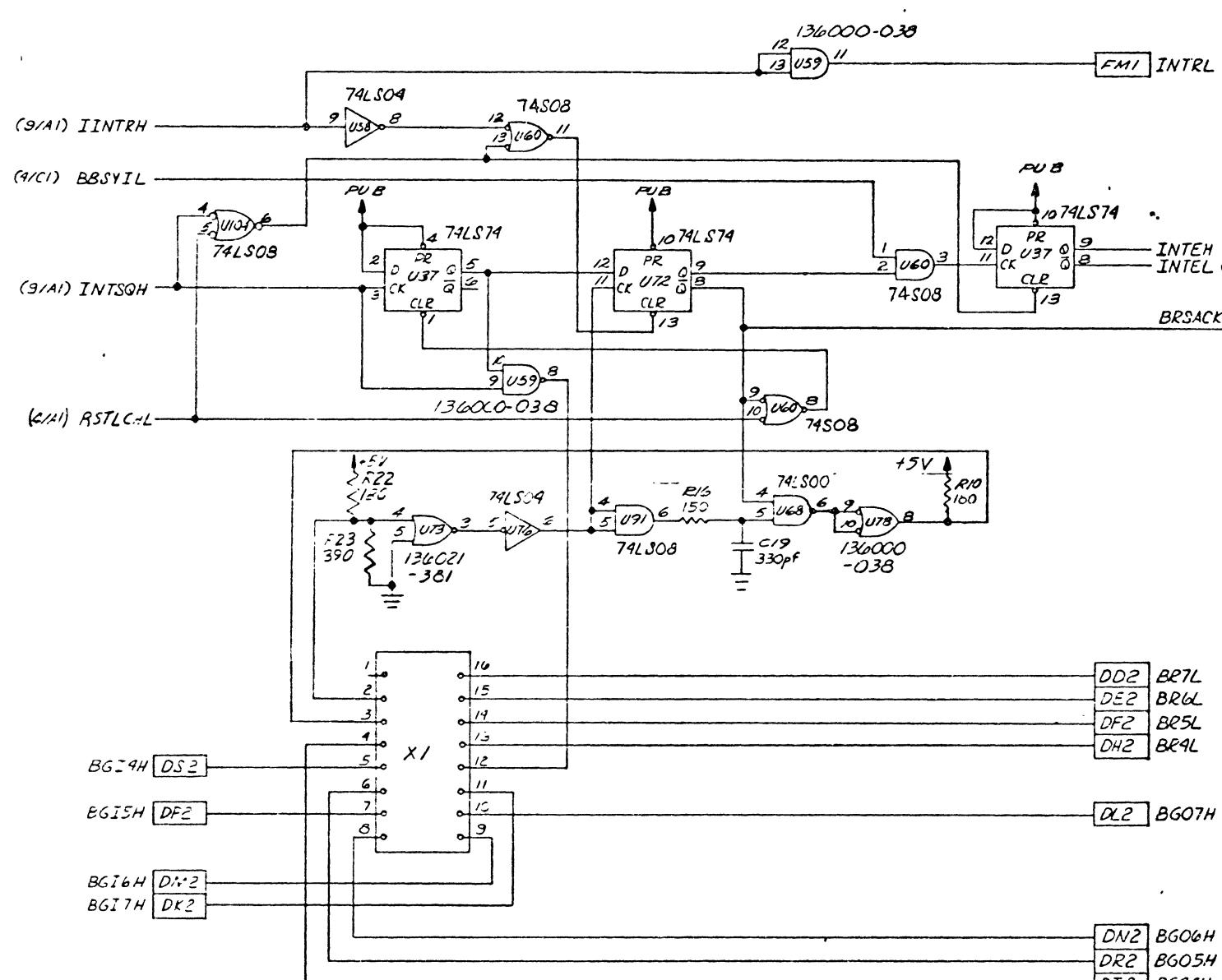
I. FOR ASSEMBLY DRAWING SEE 701890.

NOTES: UNLESS OTHERWISE SPECIFIED:

PART/ASSY NO. & QTY PER ASSY	NOTE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION / MATERIAL		SPEC/SOURCE	CODE IDENT NO.	FIND NO.
PART/ASSY REV LTR		PARTS LIST				CONTRACT NO.	
DRAWN P.P. HYTTINEN 6-5-78		Plessey Microsystems				DWG TITLE	
CHECK S. Franklin 6-15-78		SCHEMATIC DIAGRAM				CONTROLLER	
ENGR. C. G. 6-5-78		PM-DC11A				PM-DC11A	
PROD. DESK 6-5-78							
PRINTED 6-5-78							
NEXT ASSY 6-5-78							
USED ON 6-5-78							
APPLICATION 6-5-78							
DIMENSIONS ARE IN INCHES AND APPLY AFTER HEAT TREAT AND PLATE							
UNLESS OTHERWISE SPECIFIED							
APPROVALS							
SCALE: 1							
SHEET 1 OF 9							

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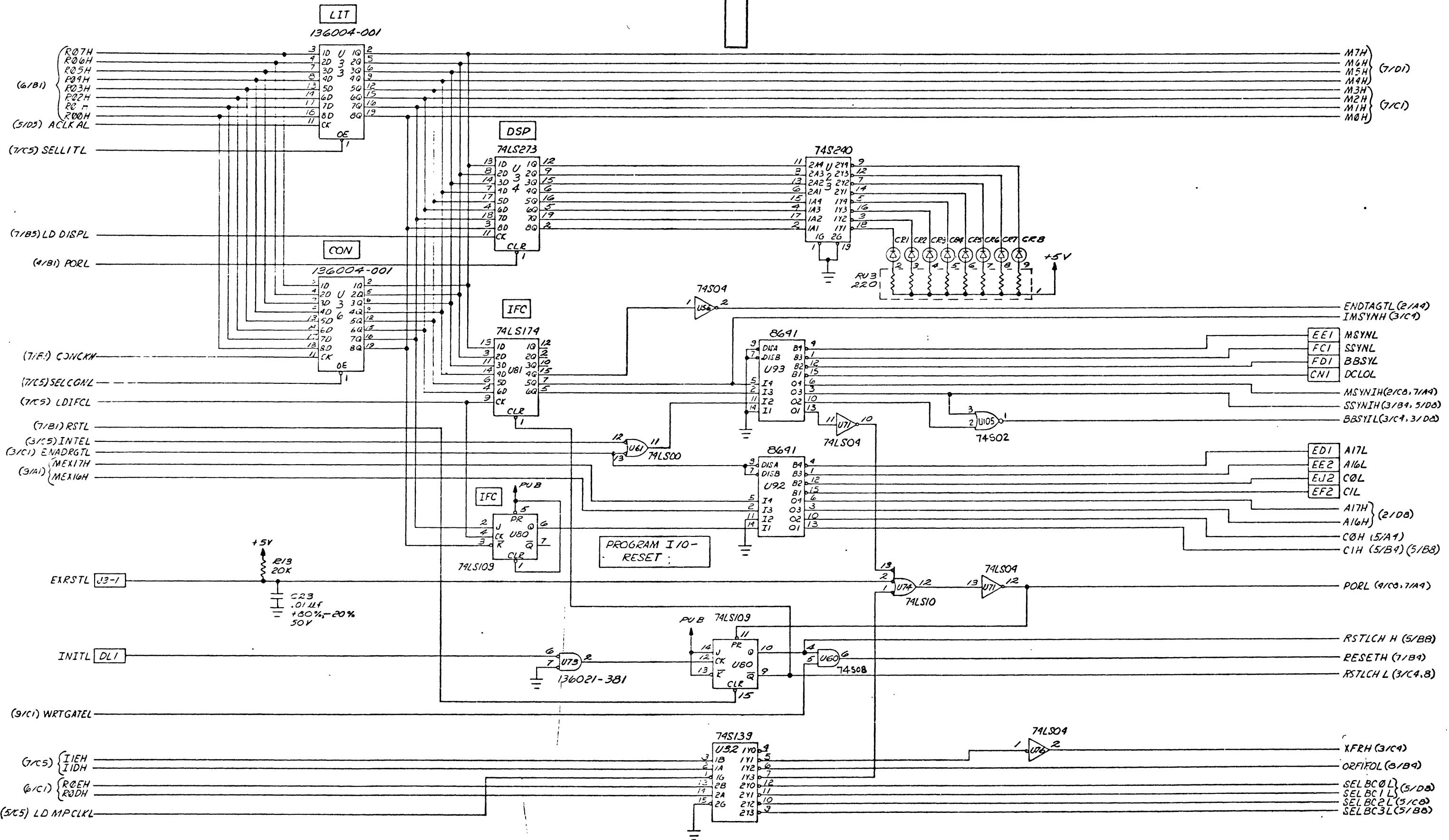
REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
1		SEE SHEET 1	



SIZE	CODE IDENT NO.	DWG NO.
D	52648	SD 701890
SCALE: ~	D	SHEET 3 OF 9

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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1		

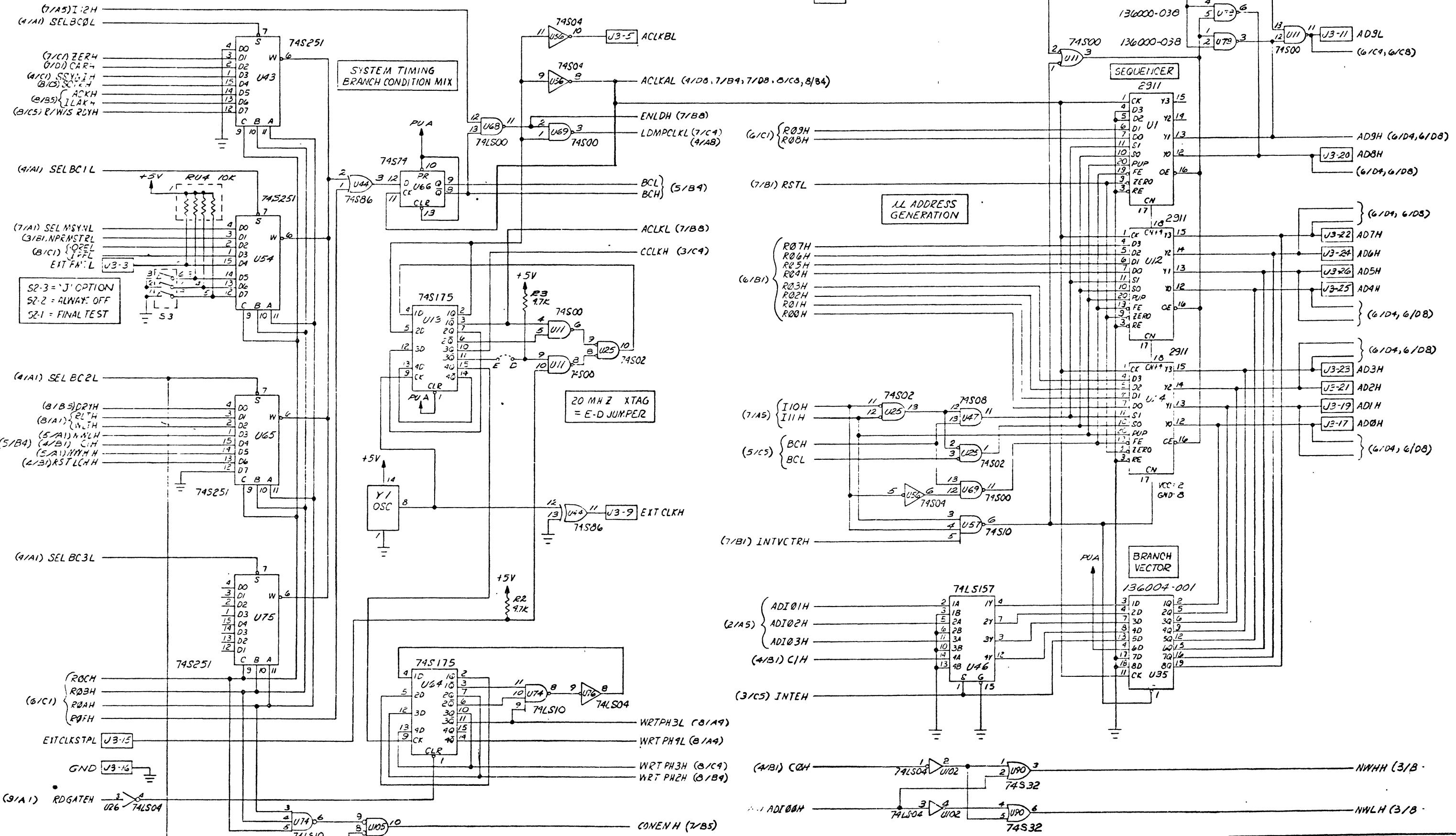


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REVISIONS

DATE	APPROVED
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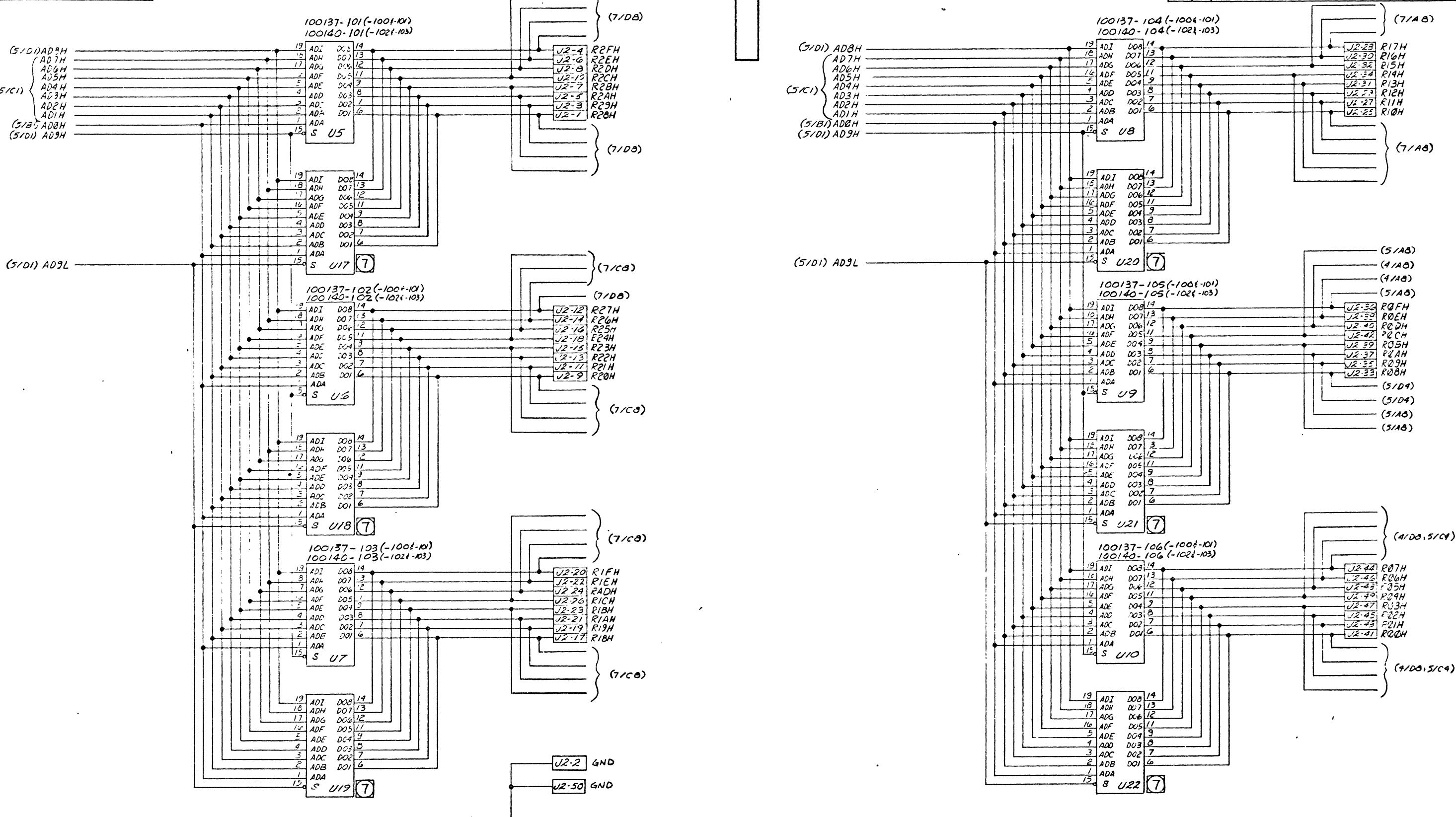
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D	52648	SD701840
SCALE: 2	D	SHEET 5 OF 9

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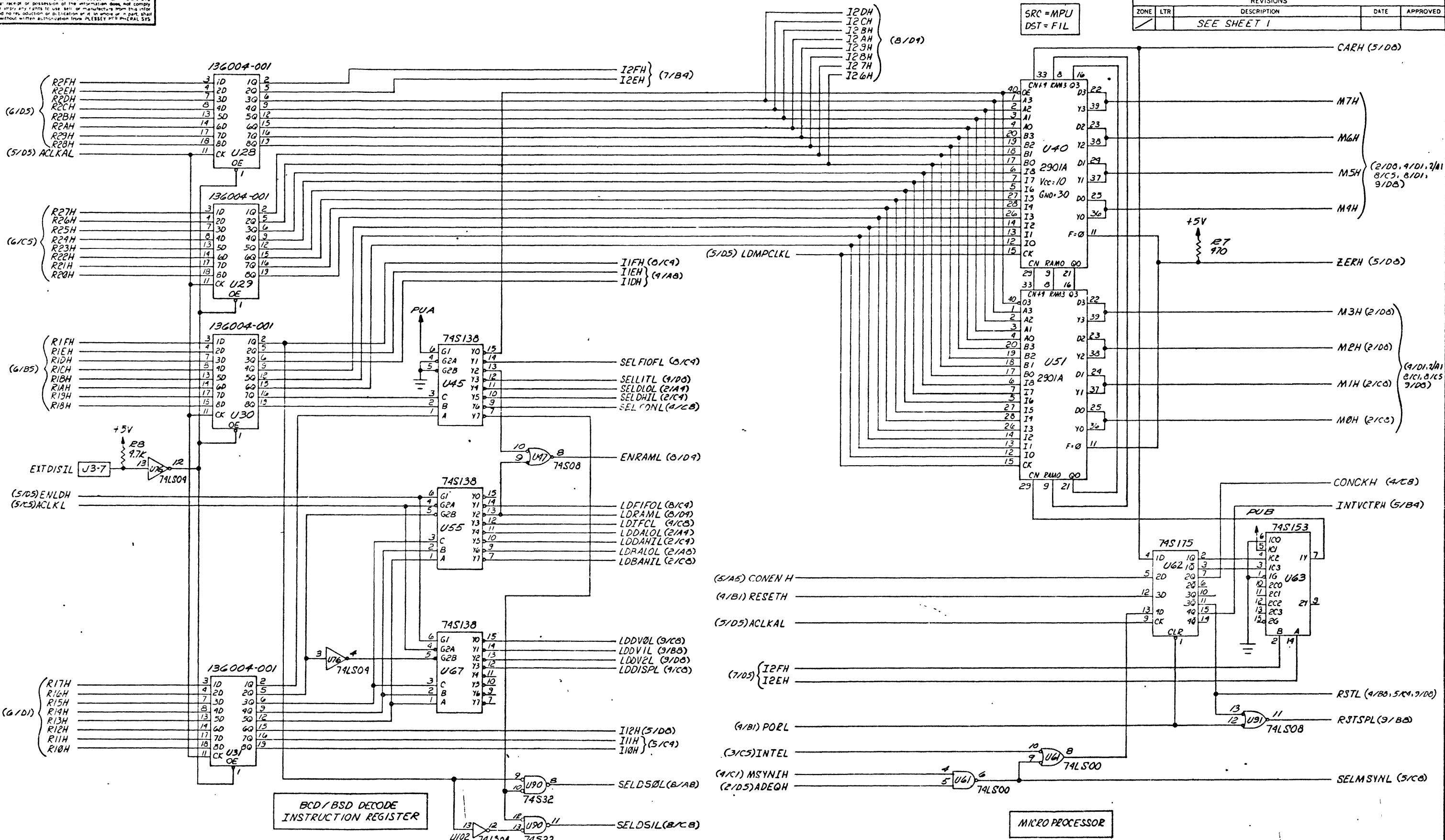
REVISONS

ZONE LTR DESCRIPTION DATE APPROVED

SEE SHEET 1

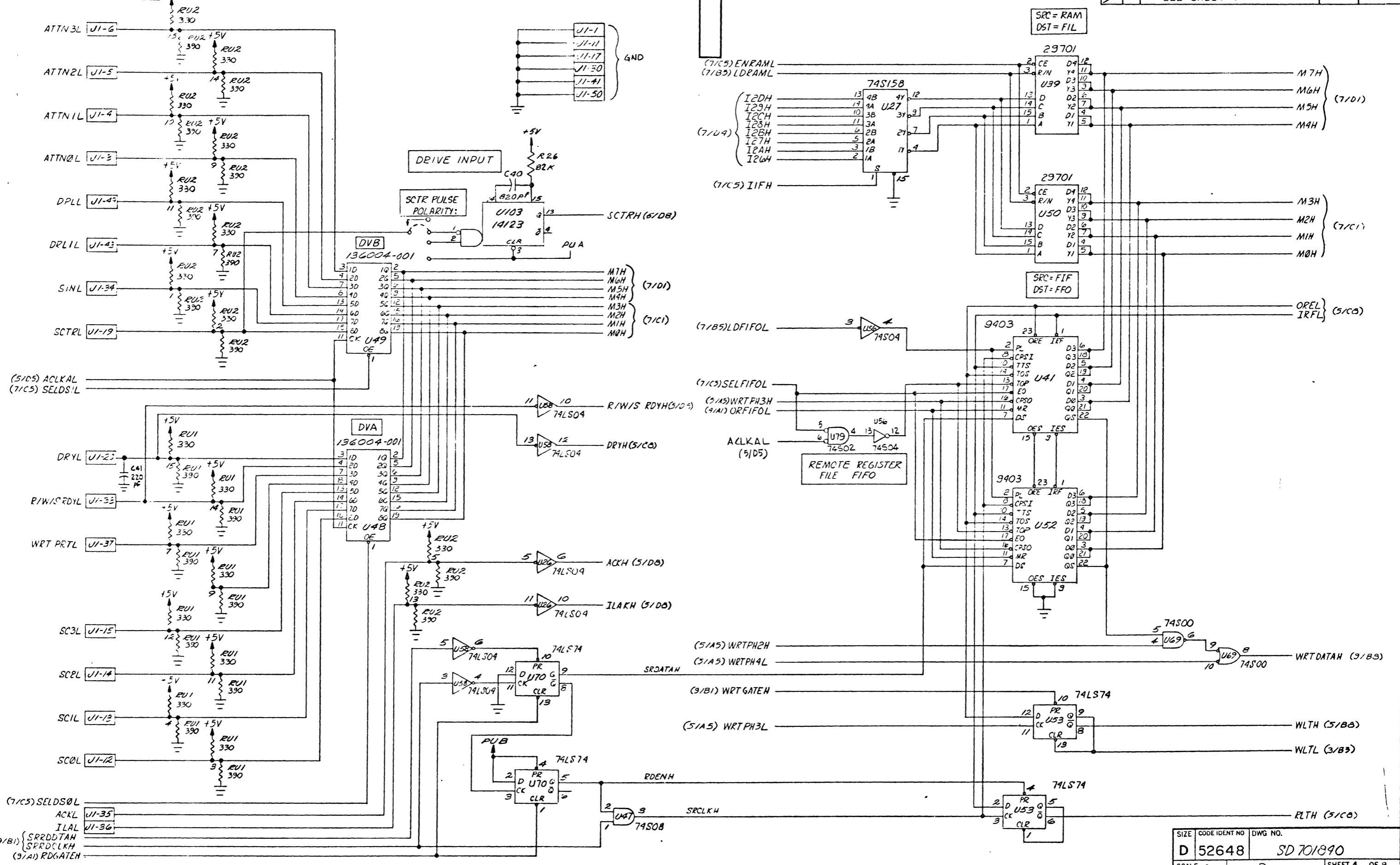


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SIZE	CODE IDENT NO.	DWG NO.
D	52648	SD701890
SCALE:	~	D
		SHEET 7 OF 9

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SIZE	CODE IDENT NO	DWG NO.
D	52648	SD 701890
SCALE: ~	D	SHEET 8 OF 9

REVSIONS		DATE	APPROVED
ZONE	LTR	DESCRIPTION	
SEE SHEET 1			

DV2

74LS273

(7/01) M9H
(M3H)
(M2H)
(M1H)
(M0H)
(M7H)
(7/01) M6H
(M5H)
(7/85) LDDVOL
(7/81) RSTL

74S240

17 E49 U 274 3
15 E43 U 273 5
13 E42 2 274 7
11 E41 271 3
8 E49 274 8
6 E43 173 9
4 E42 172 10
2 E41 171 11
16 26
1 19

J1-28 CYL ADD 7L
J1-27 CYL ADD 6L
J1-26 CYL ADD 5L
J1-25 CYL ADD 9L
J1-24 CYL ADD 3L
J1-23 CYL ADD 2L
J1-22 CYL ADD 1L
J1-21 CYL ADD 0L

DV0

74LS273

(7/85) LDDVOL
(7/81) RSTL
(7/01) RSTSPL
(8/01) WRTDTAH
DSDATA1 J1-47
DSCLKL J1-45

CONFIGURATION PROM

100141-100

+5V
R20 2.7K 4.7K R5 4.7K
R21 4.7K 4.7K R4 4.7K
17 11 12 13 14 15 16 17 18 19
100141-100
3 ADC 001 6
2 AUB 002 7
1 ADA 003 8
17 ACF 004 9
15 ADD 005 10
14 ADD 006 11
15 ADD 007 12
16 ADD 008 13
17 ADD 009 14
14 ADD 010 15
12 ADD 011 16
11 ADD 012 17
10 ADD 013 18
9 ADD 014 19
ADM U16
R19 4.7K
S1
U26 74LS04

74S240
17 244 U 274 3
15 243 U 273 5
13 242 274 7
11 241 271 9
8 149 174 10
6 143 173 11
4 142 172 12
2 141 171 13
16 26
1 19

J1-16 ADD 256L
J1-7 UNIT SEL 0L
J1-8 UNIT SEL 1L
J1-9 UNIT SEL 2L
J1-10 UNIT SEL 3L
J1-39 DISC SEL L
J1-38 HDSELL
J1-32 RESTORE L

74S240

17 244 U 274 3
15 243 U 273 5
13 242 274 7
11 241 271 9
8 149 174 10
6 143 173 11
4 142 172 12
2 141 171 13
16 26
1 19

+5V
EU2 330
EU2 330

J1-46 WRTGTL
J1-48 RDGTL
J1-40 WRTPROTL
SRRDTAH (8/01)
SRRDCLKH (8/01)

J1-31 STROBE L

J1-42 WRTDTAL

RDGATEH (8/01) (6/1A)
IINTRH (3/1D)
INTSQH (3/1C)
MEX17H (9/88)
MEX16H (9/88)

100137 PROM = B-C
100140 PROM = B-A

DRIVE OUTPUT

SIZE CODE IDENT NO. DWG NO.
D 52648 SD701890
SCALE: ~ D SHEET 9 OF 9
DISTR NO.